Amendments to the Claims

1. (Currently Amended) A method of determining relative swing curve
amplitudes for a plurality of wafer processes comprising the steps of:
coating a first wafer with a first photo resist having a first thickness in
accordance with a first process;
coating a second wafer with a second photo resist having a second thickness ir
accordance with a second process, the second photo resist for providing different a top
antireflective coating at an actinic wavelength;
exposing the first coated wafer to the actinic wavelength;
exposing the second coated wafer to the actinic wavelength;
sensing a first reflectance of the first photo resist within a predetermined range
of the actinic wavelength to determine first peak height data and first valley data;
sensing a second reflectance of the second photo resist within a predetermined
range of the actinic wavelength to determine second peak height data and second
valley data; and
determining a value relating to critical dimension (CD) CD as a function of the
first peak height data, the first valley data, the second peak height data and the second
valley data.
2. (Original) The method according to claim 1 wherein the step of sensing further
comprises a step of measuring.
3. (Original) The method according to claim 1 wherein the step of exposing
comprises the step of directing from source of actinic light within a predetermined
range of wavelengths and other than a source of approximately white light.
4. (Original) The method according to claim 1 wherein the step of determining
comprises the steps of computing a first relative swing ratio using the first peak height
data and the first valley data.

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- 5. (Original) The method according to claim 2 wherein the step of determining comprises the steps of computing a second relative swing ratio using the second peak height data and the second valley data.
- 6. (Original) The method according to claim 2 comprising the step of comparing the first relative swing ratio to the second relative swing ratio to determine which provides critical dimension control within predetermined limits.
- 7. (Original) A method of determining relative swing curve amplitudes for a plurality of wafer processes comprising the steps of: coating a first wafer with a first photo resist having a first thickness in accordance with a first process; coating a second wafer with a second photo resist having a second thickness in accordance with a second process, the second photo resist for providing different optical characteristics that the first photo resist at an actinic wavelength; exposing the first coated wafer to the actinic wavelength; exposing the second coated wafer to the actinic wavelength; sensing a first reflectance of the first photo resist within a predetermined range of the actinic wavelength to determine first peak height data and first valley data; sensing a second reflectance of the second photo resist within a predetermined range of the actinic wavelength to determine second peak height data and second valley data; and determining a relative swing ratio for the first and second processes in dependence upon the first peak height data, the first valley data, the second peak height data and the second valley data.
- 8. (Original) The method according to claim 7 wherein the step of sensing comprising a step of measuring.
- 9. (Original) The method according to claim 7 wherein the step of exposing comprises the step of directing from source of actinic light within a predetermined range of wavelengths and other than a source of approximately white light.
- 10. (Original) The method according to claim 7 wherein the step of determining comprises the steps of computing a first relative swing ratio using the first peak height data and the first valley data.

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11. (Original)	The method according to claim 10 wherein the step of	
determining compris	es the steps of computing a second relative swing ratio using the	
second peak height data and the second valley data.		
12. (Original)	The method according to claim 10 comprising the step of	
comparing the first relative swing ratio to the second relative swing ratio to determine		
which provides critical dimension control within predetermined limits.		
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13. (Original)	The method according to claim 7 wherein the second photo	
resist comprises TAI	RC.	
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14. (Original)	The method according to claim 7 wherein the actinic	
wavelength is an ultraviolet wavelength.		
15. (Currently Amen	ded) The plurality of wafers manufactured in accordance	
with the method of:		
coating a first wafer with a first photo resist having a first thickness in		
accordance with a first process;		
coating a second wafer with a second photo resist having a second thickness in		
accordance with a second process, the second photo resist for providing different a top		
antireflective coating at an actinic wavelength;		
exposing the first coated wafer to the actinic wavelength;		
exposing the second coated wafer to the actinic wavelength;		
sensing a first reflectance of the first photo resist within a predetermined range		
of the actinic wavelength to determine first peak height data and first valley data;		
sensing a second reflectance of the second photo resist within a predetermined		
range of the actinic wavelength to determine second peak height data and second		
valley data; and		
determining a value relating to critical dimension (CD) CD as a function of the		
first peak height data, the first valley data, the second peak height data and the second		
valley data.		